Since you're developing a **DCGAN (Deep Convolutional GAN) or an unconditional GAN** for your **minor project**, selecting the right dataset is crucial. The dataset should align with your project's objective—whether it's generating human faces, objects, animals, or abstract patterns.

### **📌 Recommended Datasets for DCGAN / Unconditional GAN**

Here are some well-known datasets you can use:

#### **1️⃣ Human Faces**

* **CelebA** ([Download](https://www.kaggle.com/datasets/jessicali9530/celeba-dataset))  
  + 202,599 face images with various attributes (smiling, gender, age, etc.)
  + Good for generating human faces.
  + Requires cropping/alignment.
* **FFHQ (Flickr-Faces-HQ)** ([Download](https://github.com/NVlabs/ffhq-dataset))  
  + High-resolution human faces (1024x1024).
  + Better diversity than CelebA.
* **LSUN Bedrooms** ([Download](https://www.yf.io/p/lsun))  
  + Large-scale scene understanding dataset.
  + Great for generating bedroom layouts.

#### **2️⃣ Anime & Cartoon Faces**

* **Anime Faces (Danbooru2021, Getchu, etc.)** ([Download](https://www.kaggle.com/datasets/splcher/animefacedataset))  
  + Anime character images (cropped faces).
  + Good for training anime-style face generation.
* **Cartoon Set** ([Download](https://google.github.io/cartoonset/))  
  + A dataset of cartoon avatars with different facial attributes.

#### **3️⃣ Objects & Everyday Items**

* **CIFAR-10** ([Download](https://www.cs.toronto.edu/~kriz/cifar.html))  
  + 60,000 32x32 images in 10 categories: airplane, car, bird, cat, deer, dog, frog, horse, ship, truck.
  + Small size but useful for basic GAN training.
* **CIFAR-100** ([Download](https://www.cs.toronto.edu/~kriz/cifar.html))  
  + Similar to CIFAR-10 but with 100 categories.
  + More challenging than CIFAR-10.
* **MNIST** ([Download](http://yann.lecun.com/exdb/mnist/))  
  + Handwritten digits (0-9).
  + Simple and fast for testing GAN architectures.
* **Fashion MNIST** ([Download](https://www.kaggle.com/datasets/zalando-research/fashionmnist))  
  + Clothing images (shoes, bags, T-shirts).
  + Similar to MNIST but for fashion items.

#### **4️⃣ Artistic & Abstract**

* **LSUN Churches, Towers, and Bridges** ([Download](https://www.yf.io/p/lsun))  
  + Great for scene generation.
* **Textures Dataset** ([Download](https://www.robots.ox.ac.uk/~vgg/data/dtd/))  
  + Different textures for creative pattern generation.

#### **5️⃣ Custom Datasets**

If you want something unique, you can:

* **Scrape images from the web** using Python (e.g., BeautifulSoup, Selenium).
* **Use Kaggle datasets** for specific themes.
* **Generate synthetic data** using procedural tools.

### **🔥 Best Dataset Based on Your Goal**

| **Goal** | **Best Dataset** |
| --- | --- |
| Generate human faces | CelebA, FFHQ |
| Generate anime faces | AnimeFace, CartoonSet |
| Generate objects | CIFAR-10, CIFAR-100 |
| Generate handwritten digits | MNIST, EMNIST |
| Generate clothing items | Fashion-MNIST |
| Generate scene images | LSUN Bedrooms, Churches |
| Generate artistic patterns | Textures Dataset |

### **🔧 Next Steps**

Once you pick a dataset, you'll need:

1. **Preprocessing** (Resizing, Normalization).
2. **DCGAN Model Architecture** (Generator + Discriminator).
3. **Training with PyTorch/TensorFlow/Keras**.
4. **Hyperparameter tuning & Evaluation**.

Do you have a specific theme in mind? I can help you set up the architecture! 🚀